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11 29. (Added) A milk product derived from an animal raised by feeding said animal a feed material, wherein said feed material comprises cultured microbial organisms containing omega-3 highly unsaturated fatty acid in an amount effective to increase the content of omega-3 highly unsaturated fatty acid in said milk product.

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SubC 30. (Added) The milk product of Claim 29, wherein said cultured microbial organisms have a higher average amount of omega-3 highly unsaturated fatty acid than the average for naturally-occurring organisms of the same genus.

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31. (Added) The milk product of Claim 29, wherein said milk product is selected from the group consisting of milk, cheese and butter.

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32. (Added) The milk product of Claim 29, wherein said animal is selected from the group consisting of cows, sheep, goats, bison, buffalo, antelope, deer and camels.

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33. (Added) The milk product of Claim 29, wherein said animal is selected from the group consisting of cows, sheep and goats.

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34. (Added) The milk product of Claim ¹29, wherein said feed material is protected from degradation in a rumen of said animal.

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35. (Added) The milk product of Claim ⁶34, wherein said feed material is coated with a protein.

⁸
36. (Added) The milk product of Claim ¹29, wherein said feed material comprises an element selected from the group consisting of Thraustochytriales, omega-3 highly unsaturated fatty acid extracted from Thraustochytriales, and mixtures thereof.

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37. (Added) The milk product of Claim 36, wherein said feed material comprises microorganisms of the genus *Thraustochytrium* and/or *Schizochytrium* in whole cell form.

38. (Added) The milk product of Claim 36, wherein said Thraustochytriales is obtained by a direct fermentation of grain, corn syrup or agricultural/fermentation byproducts by *Thraustochytrium* and/or *Schizochytrium*.

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39. (Added) The milk product of Claim ¹⁰38, wherein said grain is selected from the group consisting of corn, sorghum, rice, wheat, oats, rye and millet.

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Sub C2

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23

12⁵⁸₄₀. (Added) The milk product of Claim ~~36~~³⁸, wherein said feed material further comprises a dry ground grain.

13^{1/2}₄₁. (Added) The milk product of Claim ~~40~~⁴², wherein said feed material contains less than about 40% water.

14^{1/2}₄₂. (Added) The milk product of Claim ~~40~~⁴², wherein said feed material is prepared by extrusion.

15¹₄₃. (Added) The milk product of Claim ~~29~~³¹, wherein said feed material contains omega-6 highly unsaturated fatty acid in an amount effective to increase the content of omega-6 highly unsaturated fatty acid in said milk product.

16¹₄₄. (Added) The milk product of Claim ~~29~~³¹, wherein said milk product is consumable by humans.

17¹₄₅. (Added) A milk product derived from an animal raised by feeding said animal a feed material comprising an element selected from the group consisting of Thraustochytriales, omega-3 highly unsaturated fatty acid extracted from Thraustochytriales, and mixtures thereof in an amount effective to increase the content of omega-3 highly unsaturated fatty acid in said milk product.

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24

Sub C3
46. (Added) The milk product of Claim 45, wherein said feed material comprises microorganisms of the genus *Thraustochytrium* and/or *Schizochytrium* in whole cell form.

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cont.
47. (Added) The milk product of Claim 45, wherein said *Thraustochytriales* is obtained by a direct fermentation of grain, corn syrup or agricultural/fermentation byproducts by *Thraustochytrium* and/or *Schizochytrium*.

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48. (Added) The milk product of Claim 47, wherein said grain is selected from the group consisting of corn, sorghum, rice, wheat, oats, rye and millet.

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49. (Added) The milk product of Claim 45, wherein said milk product is selected from the group consisting of milk, cheese and butter.

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50. (Added) The milk product of Claim 45, wherein said animal is selected from the group consisting of cows, sheep and goats.

Sub C4
51. (Added) A milk product derived from an animal raised by feeding said animal a feed material comprising an element selected from the group consisting of *Thraustochytrium*, *Schizochytrium*, omega-3 highly unsaturated fatty acid extracted from said *Schizochytrium* and/or said